

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In re Application of:

Altman, et al.

Serial No.: Unassigned

Art Unit: Unassigned

Filed: September 24, 2003

For: METHOD OF TREATING  
CORONARY ARTERIES WITH  
PERIVASCULAR DELIVERY OF  
THERAPETIC AGENTS

Examiner: Unassigned

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

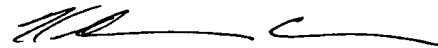
Commissioner of Patents & Trademarks  
Washington, D.C. 20231

Sir:

Enclosed please find enclosed Applicants' Information Disclosure Statement. Copies of all non-patent references not provided with this information disclosure statement were provided in parent application 09/407,461 filed on September 28, 1999 or in parent application no. 09/177,765 filed on October 23, 1998.

Date: September 24, 2003

By:



K. David Crocket, Esq.  
Reg. No. 34.311

212/511

Unassigned

## LIST OF PRIOR ART CITED BY APPLICANT

(use several sheets if necessary)

APPLICANT

Altman, et al.

FILING DATE

September 24, 2003

GROUP

Unassigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,662,929	9/97	Lagace et al.	424	450	
	AB	5,634,895	6/97	Igo et al.	604	21	
	AC	5,324,325	6/97	Moaddeb	607	120	
	AD	5,681,278	10/97	Igo et al.	604	52	
	AE	5,690,682	11/97	Buscemi et al.	607	3	
	AF	4,146,029	3/79	Ellinwood	128	260	
	AG	5,527,344	9/97	Arzbaeher et al.	607	3	
	AH	5,551,427	9/96	Altman	128	642	
	AI	4,797,285	1/89	Barenholz et al.	424	450	
	AJ	5,190,761	5/93	Liburdy	424	450	
	AK	5,928,669	7/99	Davis et al.	424	489	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL						

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

- |  |   |
|--|---|
|  | Miller et al., Degradation Rates of Oral Resorbable Implants (Polylactates and Polyglycolates): Rate Modification and Changes in PLA/PFA Copolymer Ratios, II J. Biomed. Mater. Res. 711-719 (1977) |
|  | Wang et al, pH-Sensitive Immunoliposomes Mediate Target-cell-specific Delivery and Controlled Expression of a Foreign Gene in Mouse, 84 Proc. Nat. Acad. Sci. 7851 (Nov. 1987)                      |
|  | Putney et al., Improving Protein Therapeutics with Sustained-Release Formulations, 16 Nature Biotechnology 153-57 (Feb. 1998)   |

EXAMINER

DATE CONSIDERED

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

212/511

SERIAL NO.

Unassigned

## LIST OF PRIOR ART CITED BY APPLICANT

(use several sheets if necessary)

APPLICANT

Altman, et al.

FILING DATE

September 24, 2003

GROUP

Unassigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,087,107	7/00	Sheffield et al.	435	6	
	AB	5,759,573	6/98	Kim	424	450	
	AC	6,110,490	8/00	Thierry	424	450	
	AD	6,199,554	3/01	Mann et al.	128	898	
	AE	6,306,125	10/01	Parker et al.	604	117	
	AF	6,086,582	7/00	Altman et al.	606	41	
	AG	5,914,345	6/99	Slepian et al.	514	496	
	AH	6,346,099	2/02	Altman	604	164.01	
	AI	6,156,029	12/00	Mueller	606	15	
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL						
	AM						

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

		Kibat et al., Enzymatically Activated Microencapsulated Liposomes Can Provide Pulsatile Drug Release, 4 FASEB Journal 2533 (May 1990)
		Chu et al., pH Sensitive Liposomes, 4 Journal of Liposome Research 361-395 (1994)
		Liu et al., Role of Cholesterol in the Stability of pH Sensitive, Large Unilamellar Liposomes Prepared by the Detergent-Dialysis Method, 981 Biochem. Biophys. L. Act., 254-60 (1989)

EXAMINER

DATE CONSIDERED

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

212/511

SERIAL NO.

Unassigned

## LIST OF PRIOR ART CITED BY APPLICANT

(use several sheets if necessary)

APPLICANT

Altman, et al.

FILING DATE

September 24, 2003

GROUP

Unassigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL						
	AM						

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

		Miller, Lymphatics of the Heart, Raven Press, New York (1982)
		Scheinman et al., Supraventricular Tachyarrhythmias: Drug Therapy Versus Catheter Ablation, 17 Clin. Cardiol. II-11 (1994)
		Wang et al., Highly Efficient DNA Delivery Mediated by pH-Sensitive Immunoliposomes, 28 Biochemistry 9508 (1989)

EXAMINER

DATE CONSIDERED

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

212/511

SERIAL NO.

Unassigned

## LIST OF PRIOR ART CITED BY APPLICANT

(use several sheets if necessary)

APPLICANT

Altman, et al.

FILING DATE

September 24, 2003

GROUP

Unassigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL						
	AM						

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

Gerasimov, et al., Triggered Release from Liposomes Mediated by Physically and Chemically Induced Phase Transitions, Vesicles, Edited by Morton Rosoff, Marcel Dekker, Inc., New York (1996)

Lazarus et al., Comparative Effects of Basic Fibroblast Growth Factor and Vascular Endothelial Growth Factor on Coronary Collateral Development and the Arterial Response to Injury, 94 Circulation 1074-1082 (Sept. 1996)

Lin et al., Expression of recombinant Genes in Myocardium in Vivo After Direct Injection of DNA, 82 Circulation 2217-2221 (Dec. 1990)

EXAMINER

DATE CONSIDERED

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

212/511

SERIAL NO.

Unassigned

## LIST OF PRIOR ART CITED BY APPLICANT

(use several sheets if necessary)

APPLICANT

Altman, et al.

FILING DATE

September 24, 2003

GROUP

Unassigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL						
	AM						

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

		French et al., Direct in Vivo Gene Transfer into Porcine Myocardium Using Replication Deficient Adenoviral Vectors, 90 Circulation 2414-2424 (Nov. 1994)
		Mulhauser et al., Safety and Efficacy of in Vivo Gene Transfer into the Porcine Heart with Replication-deficient, Recombinant Adenovirus Vectors, 3 Gene Therapy 145-153 (1996).
		March et al., Biodegradable Microspheres Containing a Colchicine Analogue Inhibit DNA Synthesis in Vascular Smooth Muscle Cells, 89 Circulation 1929-1933 (May 1994).

EXAMINER

DATE CONSIDERED

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

FORM PTO-1449  
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

212/511

SERIAL NO.

Unassigned

LIST OF PRIOR ART CITED BY APPLICANT

(use several sheets if necessary)

APPLICANT

Altman, et al.

FILING DATE

September 24, 2003

GROUP

Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL						
	AM						

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

		Arras et al., The Delivery of Angiogenic Factors to the Heart by Microsphere Therapy, 16 Nature Biotechnology (Feb. 1998).

EXAMINER

DATE CONSIDERED

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant